## **AMENDMENTS TO THE CLAIMS**

The following listing of claims will replace all prior versions and listings of claims in the application.

## LISTING OF CLAIMS

1. (Withdrawn) A catheter for treating an occluded vessel comprising:

a catheter body having a proximal end and a distal end, said distal end terminating in a distal tip;

an energy source coupled to said distal tip for supplying energy to the distal tip for treating an occlusion;

a magnetically active element located proximate said distal tip responsive to externally applied magnetic fields whereby said externally applied magnetic fields direct and orient said distal tip.

- 2. (Withdrawn) The catheter of claim 1 wherein said magnetically active element forms at least a portion of said distal tip.
- 3. (Withdrawn) The catheter of claim 1 further including a lumen positioned in said catheter body extending form said proximal end to said distal end.
- 4. (Withdrawn) The catheter of claim 1 further including one or more electrical coils located proximate said distal tip for cooperation with a localization device.
- 5. (Withdrawn) A sheath for use with a catheter of claim 1 for treating a vessel occlusion comprising:
  - a sheath body having a proximal end and having a distal end;
  - a lumen extending from said proximal end to said distal end;
  - a magnetically active element located proximate said distal tip.
  - 6. (Original) A system for treating a vessel occlusion comprising:
- a sheath, having a sheath body, said sheath body having a proximal end and having a distal end;
- a lumen extending through said sheath body from said proximal end to said distal end;

a catheter having a catheter body having a proximal end and a distal end terminating in distal tip;

an energy source coupled to said distal tip;

a magnetically active element located proximate said distal tip of said catheter body.

7. (Currently Amended) A system for treating a vessel occlusion comprising:

a sheath, having a sheath body, said sheath body having a proximal end and having a distal end;

a lumen extending through said sheath body from said proximal end to said distal end;

a catheter having a catheter body having a proximal end and a distal end terminating in a distal tip;

an energy source coupled to said distal tip for delivering therapeutic energy to a vessel occlusion;

a magnetically active element forming a portion of said distal tip of said sheath body.

- 8. (Currently Amended) [[The catheter of claim 1 including]] The system of claim 6 wherein the catheter further includes a first metallic element located proximate said distal tip adapted for coupling to a remote radio frequency energy source whereby RF energy coupled to said metallic element heats said metallic element.
- 9. (Currently Amended) The [[catheter]] system of claim 8 wherein said metallic element forms one pole of a monopolar energy distribution system.
- 10. (Currently Amended) [[The catheter of claim 9 including]] The system of claim 9 wherein the catheter further comprises a second metallic element proximate said distal tip forming a pole of a bipolar energy distribution system.
- 11. (Currently Amended) [[The catheter of claim 1 including]] The system of claim 6 wherein the catheter further includes a thermally conductive element located proximate said distal tip adapted for coupling to a remote optical laser energy source whereby optical energy coupled to said thermally conductive element heats said thermally conductive element.
- 12. (Currently Amended) The [[eatheter]] system of claim 11 wherein said thermally conductive element is metallic.

- 13. (Currently Amended) [[The catheter of claim 1 including]] The system of claim 6 wherein the catheter further includes an ultrasonic waveguide element located proximate said distal tip adapted for coupling to a remote ultrasonic frequency energy source.
- 14. (Currently Amended) [[The catheter of claim 1 including]] The system of claim 6 wherein the catheter further includes a resistance heating element located proximate said distal tip adapted for coupling to a remote electrical energy source.
- 15. (Currently Amended) [[The catheter of claim 14 including]] The system of claim 14 wherein the catheter further includes a resistance heating element located proximate said distal tip adapted for coupling to a remote AC elect5rical energy source.
- 16. (Currently Amended) [[The catheter of claim 14 including]] The system of claim 14 wherein the catheter further includes a resistance heating element located proximate said distal tip adapted for coupling to a remote DC electrical energy source.
- 17. (Currently Amended) [[The catheter of claim 1 including]] The system of claim 6 wherein the catheter further includes a fluid directing element located proximate said distal tip adapted for coupling to a remote hydraulic energy source, whereby fluid coupled to said device extracts occlusive material from locations near the distal tip.
- 18. (Currently Amended) [[The catheter of claim 3 further including]] The system of claim 6 wherein the catheter further includes a lumen extending from the proximal end to the distal end, and a laser imaging device located in said lumen for observing an occlusion.
- 19. (Currently Amended) [[The catheter of claim 3 including]] The system of claim 6 wherein the catheter further includes a lumen extending from the proximal end to the distal end, and an ultrasonic imaging device located in said lumen for observing an occlusion.
- 20. (Withdrawn) A system for treating total occlusions of a patient's vasculature comprising:
  - a catheter having an elongate body and a distal tip;
  - a heated element located proximate the distal tip of the catheter;
  - a magnetic element located proximate distal tip;

a magnetic surgery system for interacting with said magnetic element; said magnetic surgery system including a localization device to determine the location of the catheter distal tip within the body;

said magnetic surgery system including an occlusion visualization device for presenting an image to a user which depicts the location of the catheter tip.

- 21. (Withdrawn) The system of claim 20 wherein said visualization device is an ultrasonic imaging wire.
- 22. (Withdrawn) The system of claim 20 wherein said visualization device is a laser imaging wire.
- 23. (Withdrawn) A system for treating occlusions of a patient's vasculature comprising:

a catheter having an elongate body and a distal tip;

a heated element located proximate the distal tip of the catheter;

a magnetic element located proximate the distal tip;

a magnetic surgery system for interacting with said magnetic element;

said magnetic surgery system including a localization device to determine the location of the catheter distal tip within the body;

said magnetic surgery system including a catheter location visualization device for presenting an image to a user which depicts the location of the catheter tip.

- 24. (Withdrawn) The system of claim 23 wherein said catheter location visualization device is a preoperative CT image.
- 25. (Withdrawn) The system of claim 23 wherein said catheter location visualization device is a preoperative MRI image.
- 26. (Withdrawn) A method of treating a total vascular occlusion comprising the steps of:

inserting a catheter having a magnetic tip into the body;

directing the catheter to the location of the total occlusion;

imaging the catheter tip to confirm and direct therapy;

energizing said catheter to heat said distal tip;

manipulating said distal tip by the application of external magnetic fields, directing said catheter tip into said occlusion.